Sample Results Summary Sheet

Please return this form to the Curator for each allocated Sample

Sample ID: RA-QD02-0068

PI: Tomoki Nakamura

Type and date of analysis performed:

XRD	Jan/28/2011~ Feb/3/2011
FE-SEM, FE-EPMA	Feb/19/2011~ Feb/28/2011

Elements or phases identified: (Mg, Si, olivine, pyroxene, aromatic carbon, etc.)

XRD : Ol, Pl

FE-SEM : Ol, Pl, HPx, Tae, Chr, Mer, C-phase, Al_2O_3-rich phase, (Kam)

FE-EPMA : Si, Ti, Al, Fe, Mn, Mg, Ca, Na, K, Cr, Ni, P, S

Contaminant phases identified: (Al, SUS, carbon particles, etc.)

N/A

Sample handling:

XRD

Attached to carbon fiber with resin.

FE-SEM, FE-EPMA

Exposed in atmosphere.

Polished by M cross

C-coated (20 nm)

State of sample pre-analysis:

Attached to carbon fiber with resin. (XRD)

Polished section with resin embedded (FE-SEM, FE-EPMA)

State of sample post-analysis:

Attached to carbon fiber with resin. (XRD)

Polished section with resin embedded, C-coated (FE-SEM, FE-EPMA)

N_2 hold in sample holder.

Analysis data Notes: (summary of the attached analysis data and/or images)

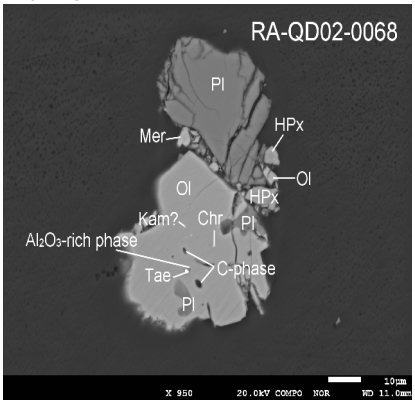
See attached sheets.

RA-QD02-0068

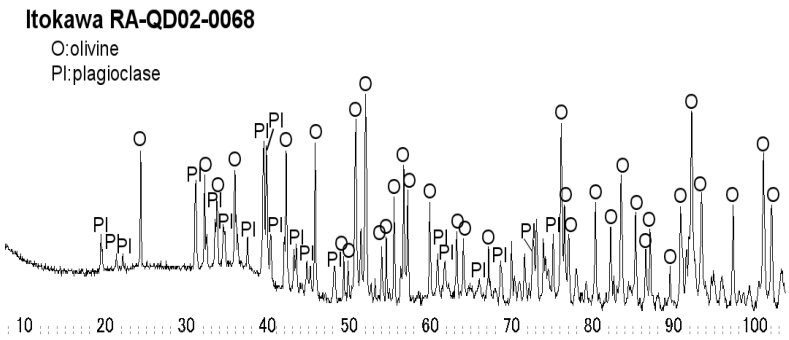
Analysis S-XRD (polish) FE-SEM FE-EPMA

Present status Putted butt with some SIMS spots

FE-SEM/BSE



S-XRD



FE-EPMA

wt%	Olivine n=1	Ol 1 sigma	LPx n=0	LPx 1 sigma	HPx n=1	HPx 1 sigma	Plagio n=1	Pl 1 sigma
SiO2	38.05	0.16			54.34		64.66	0.61
TiO2	0.02	0.03			0.29		0.04	0.07
Al2O3	0.02	0.02			0.41		20.16	0.59
FeO	25.76	0.30			4.87		0.13	0.15
MnO	0.47	0.08			0.22		0.04	0.05
MgO	36.05	0.34			16.09		0.03	0.05
CaO	0.01	0.01			22.46		2.02	0.45
Na2O	0.01	0.02			0.46		9.48	0.30
K2O	0.01	0.01			0.03		1.25	0.35
Cr2O3	0.01	0.01			0.58		0.00	0.01
NiO	0.03	0.03			0.00		0.06	0.09
P2O5	0.09	0.08			0.00		0.03	0.05
SO3	0.02	0.02			0.00		0.07	0.09
Total	100.55	0.64			99.74		97.98	0.90

SUM

Comment								
Olivine (Fa#)	28.61	0.17						
LPx(Fs#)								
LPx(Wo#)								
LPx(En#)								
HPx(Fs#)					7.81			
HPx(Wo#)					46.16			
HPx(En#)					46.03			
Pl(Or#)							6.99	2.01
Pl(An#)							9.75	2.24
Pl(Ab#)							83.26	1.29